TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

	: CP-RW-2023-01-14-17	Date: 23-07-22
Lab ID	:	
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	22-07-22
Type of Mix	:	DBM (Dense Bituminous Macadam) - Sri Venkateshwara Nilaya 2nd Cross Road
Date of test	:	22-07-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	477	477
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.6	4.6
4	Average percentage	%	4.6	

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Lab ID : CP-RW-2023-01-14-17

Date: 23-07-22

AFTER EXTRACTION(Trail-1)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.6	14.6	3.06	96.9	90-100
19	28	42.6	8.93	91.1	71-95
13.2	125	167.6	35.14	64.9	56-80
4.75	98	265.6	55.68	44.3	38-54
2.36	72	337.6	70.78	29.2	28-42
0.3	64	401.6	84.19	15.8	7-21
0.075	52.8	454.4	95.26	4.7	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 477

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.5	14.5	3.04	97.0	90-100
19	28	42.5	8.91	91.1	71-95
13.2	122	164.5	34.49	65.5	56-80
4.75	95	259.5	54.48	45.6	38-54
2.36	73	332.5	69.71	30.3	28-42
0.3	62.8	395.3	82.87	17.1	7-21
0.075	52.9	448.2	93.96	6.0	2-8

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR DBM (IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	CP-RW-2023-01-14-17 Date: 23-07-22
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	22-07-22
Type of Mix	:	DBM (Dense Bituminous Macadam) - Rathna Lavendar Apartment Road
Date of test	:	22-07-22

SLno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	478	476
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	4.6	4.8
4	Average percentage	%	4.7	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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: CP-RW-2023-01-14-17 Date: 23-07-22

AFTER EXTRACTION(Trail-1)

Lab ID : 478

Weight of Sample(gm) IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.5	14.5	3.03	97.0	90-100
19	26	40.5	8.47	91.5	71-95
13.2	124	164.5	34.41	65.6	56-80
4.75	98	262.5	54.92	45.1	38-54
2.36	70	332.5	69.56	30.4	28-42
0.3	61.5	394	82.43	17.6	7-21
0.075	52.8	446.8	93.47	6.5	2-8

AFTER EXTRACTION(Trail-2)

Weight of Sample(gm) : 476

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-10(grading -2)
37.5	0	0	0	100.0	100
26.5	14.8	14.8	3.11	96.9	90-100
19	25	39.8	8.36	91.6	71-95
13.2	120	159.8	33.57	66.4	56-80
4.75	98	257.8	54.16	45.8	38-54
2.36	78	335.8	70.55	29.5	28-42
0.3	62.8	398.6	83.74	16.3	7-21
0.075	52.8	451.4	94.83	5.2	2-8

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2023-01-14-16 Date: 18-07-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111.
Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 16-07-22

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 16-07-22

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	92	92	1.8	98.2	90-100
9.5	705	797	15.9	84.1	70-88
4.75	897	1694	33.9	66.1	53-71
2.36	589	2283	45.7	54.3	42-58
1.18	732	3015	60.3	39.7	34-48
0.6	506	3521	70.4	29.6	26-38
0.3	500	4021	80.4	19.6	18-28
0.15	350	4371	87.4	12.6	12-20
0.075	352	4723	94.5	5.5	4-10
PAN	275	4998	100	0.0	0

*The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID : CP-RW-2023-01-14-16 Date: 19-07-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 16-07-22

Type of Mix : BC(Bitumenous Concrete)

Date of test : 16-07-22

Type of Binder : 60/70

% of Binder Used : 5.0%

Weight of Aggregate : 200.0 gm

Weight of Binder : 10.0 gm

Temperature of water bath : 40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID	:	CP-RW-2023-01-14-16 **Date: 19-07-22**
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	16-07-22
Type of Mix	:	BC (Bituminous Concrete)
Date of test	:	16-07-22

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

* The results obtained are satisfactory as per standard requirements.

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TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2023-01-14-16 Date: 19-07-22

Project Name : Package-3, Includes 5 Works
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Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 16-07-22

Type of Mix : BC (Bituminous Concrete)

Date of test : 16-07-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

SLNo	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-01-14-18 Date: 27-07-22

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 26-07-22

Type of Mix : Tack coat

Date of test : 26-07-22

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.256
7	Average	Kg/sq.m	0.261	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-01-14-18 Date: 27-07-22

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 26-07-22

Type of Mix : Tack coat

Date of test : 26-07-22

SLNo	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.805	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.025	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.278	0.267
7	Average	Kg/sq.m	0.272	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-01-14-18 Date: 29-07-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-07-22

Type of Mix : Tack coat

Date of test : 28-07-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.267
7	Average	Kg/sq.m	0.267	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-01-14-18 Date: 29-07-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-07-22

Type of Mix : Tack coat

Date of test : 28-07-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.804	0.772
5	Weight of tack Coat (d=c-b)	Kg	0.024	0.024
6	Rate of spread of tack coat	Kg/sq.m	0.267	0.267
7	Average	Kg/sq.m	0.267	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

CIVIL Pro Sig..... Date..... BANGALORE

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ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಪ್ರಾಯೋಗಿಕ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಶ್ರೀಮರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2023-01-14-19 Date: 29-07-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 26-07-22

Type of Mix : BC (Bituminous Concrete) - Bhuvaneshwar Nagar, 1st Cross Road

Date of test : 26-07-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	473
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.40
4	Average percentage	%	5.5	

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HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL | ENVIRONMENTAL
WATER TESTING | GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES

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Lab ID : CP-RW-2023-01-14-19 Date: 29-07-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.7	62.3	53-71
2.36	88	266	56.4	43.6	42-58
1.18	29	295	62.5	37.5	34-48
0.6	11	306	64.8	35.2	26-38
0.3	46	352	74.6	25.4	18-28
0.15	45	397	84.1	15.9	12-20
0.075	55	452	95.8	4.2	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 473

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	4	4	0.8	99.2	90-100
9.5	62	66	14.0	86.0	70-88
4.75	112	178	37.6	62.4	53-71
2.36	88	266	56.2	43.8	42-58
1.18	29	295	62.4	37.6	34-48
0.6	11	306	64.7	35.3	26-38
0.3	46	352	74.4	25.6	18-28
0.15	45	397	83.9	16.1	12-20
0.075	55	452	95.6	4.4	4-10

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2023-01-14-19 Date: 29-07-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 26-07-22

Type of Mix : BC (Bituminous Concrete) - Bhuvaneshwar Nagar, 1st Cross Road

Date of test : 26-07-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.80
4	Average percentage	%	5.7	

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Lab ID : CP-RW-2023-01-14-19 Date: 29-07-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	64	70	14.8	85.2	70-88
4.75	114	184	39.0	61.0	53-71
2.36	86	270	57.2	42.8	42-58
1.18	28	298	63.1	36.9	34-48
0.6	14	312	66.1	33.9	26-38
0.3	48	360	76.3	23.7	18-28
0.15	47	407	86.2	13.8	12-20
0.075	46	453	96.0	4.0	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	9	9	1.9	98.1	90-100
9.5	64	73	15.5	84.5	70-88
4.75	119	192	40.8	59.2	53-71
2.36	67	259	55.0	45.0	42-58
1.18	32	291	61.8	38.2	34-48
0.6	15	306	65.0	35.0	26-38
0.3	52	358	76.0	24.0	18-28
0.15	46	404	85.8	14.2	12-20
0.075	40	444	94.3	5.7	4-10

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2023-01-14-19 Date: 30-07-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-07-22

Type of Mix : BC (Bituminous Concrete) - Bhuvaneshwar Nagar, 2nd A Cross Road

Date of test : 28-07-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.80
4	Average percentage	%	5.7	

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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Lab ID : CP-RW-2023-01-14-19 Date: 30-07-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	5	5	1.1	98.9	90-100
9.5	68	73	15.5	84.5	70-88
4.75	114	187	39.6	60.4	53-71
2.36	85	272	57.6	42.4	42-58
1.18	24	296	62.7	37.3	34-48
0.6	14	310	65.7	34.3	26-38
0.3	47	357	75.6	24.4	18-28
0.15	47	404	85.6	14.4	12-20
0.075	46	450	95.3	4.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	9	9	1.9	98.1	90-100
9.5	64	73	15.5	84.5	70-88
4.75	117	190	40.3	59.7	53-71
2.36	64	254	53.9	46.1	42-58
1.18	32	286	60.7	39.3	34-48
0.6	15	301	63.9	36.1	26-38
0.3	47	348	73.9	26.1	18-28
0.15	46	394	83.7	16.3	12-20
0.075	46	440	93.4	6.6	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Authorized Signatory
Quality Manager

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ವ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2023-01-14-19 Date: 30-07-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-07-22

Type of Mix : BC (Bituminous Concrete) - Bhuvaneshwar Nagar, 2nd A Cross Road

Date of test : 28-07-22

Slno	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	471	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.80	5.60
4	Average percentage	%	5.7	

CIVIL Pro Sig..... Date..... BANGALORE

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Authorized Signatory
Quality Manager

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Lab ID : CP-RW-2023-01-14-19 Date: 30-07-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	64	72	15.3	84.7	70-88
4.75	118	190	40.3	59.7	53-71
2.36	82	272	57.7	42.3	42-58
1.18	24	296	62.8	37.2	34-48
0.6	14	310	65.8	34.2	26-38
0.3	49	359	76.2	23.8	18-28
0.15	48	407	86.4	13.6	12-20
0.075	38	445	94.5	5.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	9	9	1.9	98.1	90-100
9.5	64	73	15.5	84.5	70-88
4.75	116	189	40.0	60.0	53-71
2.36	67	256	54.2	45.8	42-58
1.18	34	290	61.4	38.6	34-48
0.6	18	308	65.3	34.7	26-38
0.3	49	357	75.6	24.4	18-28
0.15	52	409	86.7	13.3	12-20
0.075	42	451	95.6	4.4	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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ಬಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 30-07-22

Lab ID : CP-RW-2023-01-14-19

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-07-22

Type of Mix : BC (Bituminous Concrete) - Sai Pearls Apartment Cross Road

Date of test : 28-07-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	501	500
2	Weight of the sample After extraction	B	472	472
3	Bitumen percentage	A-B X 100 / A	5.79	5.60
4	Average percentage	%	5.7	

CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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Lab ID : CP-RW-2023-01-14-19 Date: 30-07-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	1	1	0.2	99.8	90-100
9.5	65	66	14.0	86.0	70-88
4.75	102	168	35.6	64.4	53-71
2.36	82	250	53.0	47.0	42-58
1.18	41	291	61.7	38.3	34-48
0.6	22	313	66.3	33.7	26-38
0.3	49	362	76.7	23.3	18-28
0.15	25	387	82.0	18.0	12-20
0.075	40	427	90.5	9.5	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	2	2	0.4	99.6	90-100
9.5	66	68	14.4	85.6	70-88
4.75	101	169	35.8	64.2	53-71
2.36	85	254	53.8	46.2	42-58
1.18	42	296	62.7	37.3	34-48
0.6	23	319	67.6	32.4	26-38
0.3	51	370	78.4	21.6	18-28
0.15	28	398	84.3	15.7	12-20
0.075	34	432	91.5	8.5	4-10

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Authorized Signatory
Quality Manager

Page 2/2
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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part I) 1963 (RA 2011)

Date: 30-07-22

Lab ID : CP-RW-2023-01-14-19

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-07-22

Type of Mix : BC (Bituminous Concrete) - Sai Pearls Apartment Cross Road

Date of test : 28-07-22

Sl.no	Description	Index	Trail I	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	A-B X 100 / A	5.60	5.80
4	Average percentage	%	5.7	

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Authorized Signatory
Quality Manager

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Lab ID : CP-RW-2023-01-14-19 Date: 30-07-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	11	11	2.3	97.7	90-100
9.5	78	89	18.9	81.1	70-88
4.75	101	190	40.3	59.7	53-71
2.36	79	269	57.0	43.0	42-58
1.18	31	300	63.6	36.4	34-48
0.6	23	323	68.4	31.6	26-38
0.3	55	378	80.1	19.9	18-28
0.15	28	406	86.0	14.0	12-20
0.075	25	431	91.3	8.7	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	12	12	2.5	97.5	90-100
9.5	70	82	17.4	82.6	70-88
4.75	92	174	36.9	63.1	53-71
2.36	91	265	56.3	43.7	42-58
1.18	35	300	63.7	36.3	34-48
0.6	38	338	71.8	28.2	26-38
0.3	35	373	79.2	20.8	18-28
0.15	34	407	86.4	13.6	12-20
0.075	22	429	91.1	8.9	4-10

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-01-14-14 Date: 30-06-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-06-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 (Part 1,2 3,4,5, 6,11):1988
IS 4031 Part 1 (RA 2021) DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4
IS 4031 Part 2, (RA 2018) Determination of Fineness by Blaine Air Permeability
IS 4031 Part 3, (RA 2019) Determination of Soundness, Clause 5, Clause 6
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 5, (RA 2019) Determination of Initial & Final Setting Time, Clause 5
IS 4031 Part 11, (RA 2019)DETERMINATION OF DENSITY , Clause 6

Date of test : 28-06-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.75	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.4	225m^2/kg, Min
3	Density (gm/cc)	3.14	–
4	Standard Consistency (%)	29.5%	Not specified
5	Initial Setting time	175 minutes	Not less than 30 minutes
6	Final Setting time	280 minutes	Not more than 600 minutes
7	Soundness (I.e Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID : CP-2023-01-14-14 Date: 26-07-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-06-22

Sample Type : Birla Super 53grade

Reference to BIS codes : IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification ,
IS 4031 Part 4, (RA 2019) Determination of Consistency of Standard Cement Paste, Clause 5
IS 4031 Part 6, (RA 2019) Determination of Compressive Strength, Clause 6

Date of test : 28-06-22

Environmental Conditions during test : Temperature: 26°C
Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	29.0N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.5N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.5N/mm^2	Not less than 53 N/mm^2

*The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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WATER TESTING

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-01-14-14 Date: 30-06-22

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-06-22

Sample Type : 40mm down size coarse aggregate

Reference to BIS codes : IS: 383:2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1,3,4) RA2021
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
IS 2386 Part 4: Mechanical Properties

Date of test : 27-06-22

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : 15000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	242	242	1.6	98.4	90-100
3	20 mm	5437	5679	37.9	62.1	30-70
4	10 mm	4339	10018	66.8	33.2	10-35
5	4.75 mm	4649	14667	97.8	2.2	0-5
6	Pan	333	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : CP-2023-01-14-14

Date: 30-06-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.2	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	11.3	
3	Specific Gravity	2.65	-
4	Bulk Density(Loose) (Kg/l)	1.49	-
5	Bulk Density(Compacted) (Kg/l)	1.52	-
6	Water Absorption(%)	0.20	-

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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TEST REPORT OF FINE AGGREGATE

Date: 30-06-22

Lab ID : CP-2023-01-14-14

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 27-06-22

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 27-06-22

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	78	78	7.8	92.2	90-100	90-100	90-100	95-100
3	2.36 mm	65	143	14.3	85.7	60-95	75-100	85-100	95-100
4	1.18 mm	244	387	38.7	61.3	30-70	55-90	75-100	90-100
5	600 micron	215	602	60.2	39.8	15-34	35-59	60-79	80-100
6	300 micron	178	780	78.0	22.0	5-20	8-30	12-40	15-50
7	150 micron	141	921	92.1	7.9	0-10	0-10	0-10	0-15
8	Pan	79	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2023-01-14-14 Date: 30-06-22

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.2	–
2	Specific Gravity	2.4	–
3	Material finer than 75 micron(%)	6.5	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/07/2022

Lab ID : CP-2023-01-14-14
Project Name : Package-3, Includes 5 Works
: Improvements to Roads and Drains at Thanisandra Dasarahalli Sanaipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference : BBMP/EE/BTP/WO/02/2021-22
Date of Receipt : 02-07-22
Customer ID : Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 07/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	07/07/2022	149.46 X 151.34 X 149.28	22619	8.816	580.7	25.7	25.6
2	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	07/07/2022	149.57 X 149.96 X 151.56	22430	8.145	586.8	26.2	
3	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	07/07/2022	151.64 X 151.19 X 149.76	22926	8.109	569.2	24.8	

*The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/07/2022

Lab ID : CP-2023-01-14-14
Project Name : Package-3, Includes 5 Works
: Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go SI No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go SI No 112 and 113.
Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference : BBMP/EE/BTP/WO/02/2021-22
Date of Receipt : 02-07-22
Customer ID : Cement Concrete Pavement - Sneha Nagar W7 Cross Road I (W0285)
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M30 / 28 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of test : 28/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Cross Road I (W0285)	M30	30/06/2022	28/07/2022	149.94 X 151.27 X 151.14	22681	8.872	756.9	33.4	33.2
2	Cement Concrete Pavement - Sneha Nagar W7 Cross Road I (W0285)	M30	30/06/2022	28/07/2022	149.95 X 151.00 X 151.90	22643	8.779	743.6	32.8	
3	Cement Concrete Pavement - Sneha Nagar W7 Cross Road I (W0285)	M30	30/06/2022	28/07/2022	149.63 X 151.80 X 149.66	22714	8.998	757.3	33.3	

*The results obtained are satisfactory as per standard requirements.

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 07/07/2022

Lab ID : CP-2023-01-14-14
Project Name : Package-3, Includes 5 Works
: Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 02-07-22

Customer ID : Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 07/07/2022

S. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	07/07/2022	150.27 X 149.82 X 151.12	22515	8.313	575.4	25.6	25.6
2	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	07/07/2022	151.75 X 149.12 X 150.05	22629	8.366	597.8	26.4	
3	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	07/07/2022	149.23 X 149.72 X 151.45	22342	8.918	552.9	24.7	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪ, ಬೆಂಗಳೂರು-26

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/07/2022

CP-2023-01-14-14

: Package-3, Includes 5 Works
: Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
: M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
: BBMP/EE/BTP/WO/02/2021-22
: 02-07-22
: Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)
: 150X150X150 mm
: M30 / 28 Days Compressive Strength
: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
: 28/07/2022

S. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	28/07/2022	150.44 X 151.01 X 150.01	22719	8.867	751.5	33.1	33.0
2	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	28/07/2022	151.15 X 149.93 X 149.33	22662	8.567	730.1	32.2	
3	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	28/07/2022	150.45 X 150.65 X 151.61	22665	8.118	762.4	33.6	

*The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ, ಬೆಂಗಳೂರು-24

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TEST REPORT OF CEMENT CONCRETE CUBES

Certificate No.: TC-5548

Format No: CP/TF/01

Date: 07/07/2022

ID	:	CP-2023-01-14-14
ject Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
ent	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
stomer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
te of Receipt	:	02-07-22
stomer ID	:	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)
mple Type /Size	:	150X150X150 mm
mple grade/Age	:	M30 / 7 Days Compressive Strength
ference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
te of test	:	07/07/2022

Sl. No	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
1	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	07/07/2022	150.27 X 149.51 X 151.71	22466	8.967	578.0	25.7	25.7
2	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	07/07/2022	150.88 X 151.77 X 149.24	22900	8.334	604.6	26.4	
3	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	07/07/2022	149.79 X 151.17 X 151.32	22644	8.678	562.7	24.9	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 28/07/2022

Job ID / Project Name	:	CP-2023-01-14-14
	:	Package-3, Includes 5 Works
	:	Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Client	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	02-07-22
Customer ID	:	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of Test	:	28/07/2022

Sl No	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	28/07/2022	150.44 X 151.01 X 150.01	22719	8.867	751.5	33.1	33.0
2	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	28/07/2022	151.15 X 149.93 X 149.33	22662	8.567	730.1	32.2	
3	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 1 (W0285)	M30	30/06/2022	28/07/2022	150.45 X 150.65 X 151.61	22665	8.118	762.4	33.6	

*The results obtained are satisfactory as per standard requirements.

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B KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5543

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CPTF 01

Date: 08/07/2022

Job ID : CP-2023-01-14-14

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Client : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 04-07-22

Customer ID : Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)

Sample Type/ Size : 150X150X150 mm

Sample grade/ Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/07/2022

S. No	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	08/07/2022	150.10 X 150.79 X 151.13	22633	8.532	576.3	25.5	25.4
2	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	08/07/2022	149.24 X 150.27 X 149.37	22426	8.402	584.1	26.0	
3	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	08/07/2022	149.64 X 151.28 X 149.79	22637	8.925	561.7	24.8	

*The results obtained are satisfactory as per standard requirements.

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Certificate No.: TC-5548

Format No: CP/TF/01

Date: 29/07/2022

: CP-2023-01-14-14

: Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

: M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

: BBMP/EE/BTP/WO/02/2021-22

: 04-07-22

: Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)

: 150X150X150 mm

: M30 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 29/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	29/07/2022	149.69 X 150.56 X 151.45	22537	8.208	745.1	33.1	33.2
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	29/07/2022	150.69 X 150.48 X 150.21	22677	9.019	746.1	32.9	
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	29/07/2022	151.50 X 151.03 X 150.21	22880	9.073	766.4	33.5	

The results obtained are satisfactory as per standard requirements.

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R. CARTHIK RECHAN
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Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Date: 08/07/2022

Job Card No.	:	CP-2023-01-14-14
Work Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Client	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Client's Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	04-07-22
Concrete ID	:	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)
Specimen Type Size	:	150X150X150 mm
Specified grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
Date of Test	:	08/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	08/07/2022	151.44 X 149.82 X 151.35	22688	8.618	578.3	25.5	25.6
2	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	08/07/2022	150.69 X 151.40 X 151.49	22813	8.473	609.6	26.7	
3	Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	08/07/2022	150.79 X 150.48 X 150.90	22691	8.965	560.8	24.7	

*The results obtained are satisfactory as per standard requirements.

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P. KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

CP-2023-01-14-14

Date: 29/07/2022

: Package-3, Includes 5 Works
: Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
: M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
: BBMP/EE/BTP/WO/02/2021-22
: 04-07-22
: Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)
: 150X150X150 mm
: M30 / 28 Days Compressive Strength
: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
: 29/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	29/07/2022	151.71 X 150.84 X 149.29	22883	8.839	768.5	33.6	33.1
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	29/07/2022	151.24 X 149.41 X 150.86	22597	8.391	735.9	32.6	
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	29/07/2022	151.78 X 149.94 X 149.48	22757	8.165	753.7	33.1	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Format No: CP/TF/01

CP-2023-01-14-14

Date: 08/07/2022

: Package-3, Includes 5 Works
: Improvements to Roads and Drains at Thanisandra Dasarahalli Suraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

: M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

: BBMP/EE/BTP/WO/02/2021-22

: 04-07-22

: Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 08/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen	Cross sectional area	Weight of the sample	Failure Load	Compressive strength	Average Compressive Strength
				(mm)	(Sq.mm)	(kg)	(KN)	(N/mm^2)	(N/mm^2)
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	08/07/2022	150.53 X 149.38 X 149.28	22487	9.071	566.5	25.2	25.4
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	08/07/2022	151.00 X 150.15 X 151.05	22673	8.397	603.4	26.6	
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	08/07/2022	150.88 X 150.41 X 151.12	22694	8.695	550.9	24.3	

Results obtained are satisfactory as per standard requirements.

ಕಡಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

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Quality Manager

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4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST REPORT OF CEMENT CONCRETE CUBES

Certificate No.: TC-5548

Format No: CP/TF/01

Date: 29/07/2022

: CP-2023-01-14-14

: Package-3, Includes 5 Works

: Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

: M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

: BBMP/EE/BTP/WO/02/2021-22

: 04-07-22

: Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)

: 150X150X150 mm

: M30 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 29/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	29/07/2022	151.82 X 149.58 X 151.59	22709	8.516	757.4	33.4	33.1
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	29/07/2022	150.94 X 150.88 X 150.82	22773	8.827	734.0	32.2	
Cement Concrete Pavement - Sneha Nagar W7 Cross Road 2 (W0283)	M30	01/07/2022	29/07/2022	149.06 X 150.84 X 150.48	22484	8.981	755.4	33.6	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Page 1/1
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ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ದಾಸರಹಳ್ಳಿ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-24

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

: CP-2023-06-14-14

: Package-3, Includes 5 Works

Date: 09/07/2022

: Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

: M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

: BBMP/EE/BTP/WO/02/2021-22

: 04-07-22

: Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)

: 150X150X150 mm

: M30 / 7 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 09/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0265)	M30	02/07/2022	09/07/2022	149.41 X 149.67 X 149.52	22362	8.306	564.9	25.3	25.2
Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0265)	M30	02/07/2022	09/07/2022	151.91 X 149.40 X 150.51	22695	8.889	592.2	26.1	
Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	149.04 X 150.59 X 149.80	22445	8.567	541.2	24.1	

The results obtained are satisfactory as per standard requirements.

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬಿ.ಬಿ.ಎಂ.ಪಿ ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ

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H KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro ★ Sig..... Date..... ★ BANGALORE

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****End of Report****

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26

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TEST REPORT OF CEMENT CONCRETE CUBES

Certificate No.: TC-5548

Format No: CP/TF/01

Date: 30/07/2022

: CP-2023-01-14-14

: Package-3, Includes 5 Works

: Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

: M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

: BBMP/EE/BTP/WO/02/2021-22

: 04-07-22

: Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)

: 150X150X150 mm

: M30 / 28 Days Compressive Strength

: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

: 30/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm²)	Average Compressive Strength (N/mm²)
Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	149.84 X 149.18 X 149.54	22353	8.742	745.7	33.4	33.1
Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	150.92 X 149.86 X 150.87	22617	8.280	738.7	32.7	
Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	149.31 X 149.10 X 150.08	22261	8.734	742.4	33.3	

Results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/T/01

CP-2023-01-14-14

Date: 09/07/2022

: Package-3, Includes 5 Works
: Improvements to Roads and Drains at Thanisandra Dasarahalli Suraipalya and Bharathinagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarnyanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
: M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
: BBMP/EE/BTP/WO/02/2021-22
: 04-07-22
: Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)
: 150X150X150 mm
: M30 / 7 Days Compressive Strength
: IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5
: 09/07/2022

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	149.03 X 149.26 X 151.91	22244	9.053	570.9	25.7	25.6
Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	149.77 X 150.03 X 151.15	22469	8.977	596.1	26.5	
Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	149.97 X 149.70 X 151.96	22450	8.682	554.8	24.7	

The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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CIVIL Pro Sig..... Date..... BANGALORE

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೨೬

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-01-14-14

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go SI No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go SI No 112 and 113.

Date: 30/07/2022

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 04-07-22

Customer ID : Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	149.84 X 149.18 X 149.54	22353	8.742	745.7	33.4	33.1
2	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	150.92 X 149.86 X 150.87	22617	8.280	738.7	32.7	
3	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	149.31 X 149.10 X 150.08	22261	8.734	742.4	33.3	

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

****End of Report****

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-01-14-14

Date: 09/07/2022

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 04-07-22

Customer ID : Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	149.70 X 149.26 X 151.03	22344	8.889	563.0	25.2	25.4
2	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	151.73 X 150.31 X 150.87	22808	8.801	609.4	26.7	
3	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	151.36 X 151.13 X 149.43	22875	8.931	554.6	24.2	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಯಂತರರು
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Quality Manager

Page 1/1

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-01-14-14

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Date: 30/07/2022

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 04-07-22

Customer ID : Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	149.45 X 149.82 X 150.42	22391	8.645	746.5	33.3	33.2
2	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	151.26 X 150.80 X 150.13	22809	8.358	752.4	33.0	
3	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	150.49 X 150.24 X 150.32	22609	8.452	753.6	33.3	

* The results obtained are satisfactory as per standard requirements.

ಸಹಾಯಕ ಅಭಿಯಂತರರು
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FOR CIVIL Pro.
R.P. CHARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro BANGALORE Sig..... Date.....

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****End of Report****

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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TEST REPORT OF CEMENT CONCRETE CUBES

Certificate No.: TC-5548

Format No: CP/TF/01

Lab ID : CP-2023-01-14-14

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Date: 09/07/2022

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 04-07-22

Customer ID : Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	150.63 X 149.74 X 150.85	22555	8.428	580.0	25.7	25.7
2	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	150.25 X 150.62 X 149.42	22631	8.692	609.2	26.9	
3	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	09/07/2022	151.10 X 150.08 X 151.67	22678	8.951	553.7	24.4	

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

TEST REPORT OF CEMENT CONCRETE CUBES

Format No: CP/TF/01

Lab ID : CP-2023-01-14-14

Project Name : Package-3, Includes 5 Works

Date: 30/07/2022

Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 04-07-22

Customer ID : Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 (RA 2018) Methods of Tests for Strength of Concrete Cl.5

Date of test : 30/07/2022

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	150.40 X 150.73 X 150.04	22669	8.504	752.3	33.2	33.0
2	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	150.70 X 151.30 X 150.58	22800	8.229	744.0	32.6	
3	Cement Concrete Pavement - Sneha Nagar W7 Crosss Road 3 (W0268)	M30	02/07/2022	30/07/2022	151.98 X 150.25 X 149.92	22835	8.650	758.2	33.2	

*The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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ಬಿಬಿಎಂಪಿ, ಬೆಂಗಳೂರು-28

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TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2023-01-14-14 Date: 30-06-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111.
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Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-06-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 28-06-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST RESULTS OF GRADATION FOR WMM

Lab ID : CP-RW-2023-01-14-14

Project Name : Package-3, Includes 5 Works Date: 30-06-22
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111.
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Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-06-22

Type of Mix : WMM (Wet Mix Macadam)

Date of test : 28-06-22

Oven Dry Weight : 11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	354	354	3.2	96.8	95-100
22.4	2169	2523	22.9	77.1	60-80
11.2	2089	4612	41.9	58.1	40-60
4.75	2196	6808	61.9	38.1	25-40
2.36	1739	8547	77.7	22.3	15-30
0.6	735	9282	84.4	15.6	8-22
0.075	1463	10745	97.7	2.3	0-5

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID : CP-RW-2023-01-14-14

Date: 30-06-22

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-06-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 28-06-22

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301.3	301.3
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	72.8	73.5
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	227.6	227.1
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.9	0.7
5	Aggregate impact value	(B/A)*100	24.2	24.4
6	Aggregate impact value (Mean of two tests)	Pecentage	24.3	

* The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2023-01-14-14

Project Name : Package-3, Includes 5 Works Date: 30-06-22
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 28-06-22

Type of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

Date of test : 28-06-22

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
Combined Flakiness and Elongation Index for WMM	25.3%	

* The results obtained are satisfactory as per standard requirements.

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TEST RESULTS OF GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2007)

Lab ID : CP-RW-2023-01-14-14

Project Name : Package-3, Includes 5 Works Date: 11-07-22
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111.
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Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 08-07-22

Type of Mix : BC-Plant (Bituminous Concrete)

Date of test : 08-07-22

Oven Dry Weight : 5000 Grams

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-17(grading-2)
19	0	0	0.0	100.0	100
13.2	93	93	1.9	98.1	90-100
9.5	699	792	15.8	84.2	70-88
4.75	769	1561	31.2	68.8	53-71
2.36	632	2193	43.9	56.1	42-58
1.18	487	2680	53.6	46.4	34-48
0.6	510	3190	63.8	36.2	26-38
0.3	532	3722	74.4	25.6	18-28
0.15	462	4184	83.7	16.3	12-20
0.075	336	4520	90.4	9.6	4-10
PAN	480	5000	100	0.0	0

* The results obtained are satisfactory as per standard requirements.

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TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	CP-RW-2023-01-14-14
Project Name	:	Package-3, Includes 5 Works Date: 11-07-22 Improvements to Roads and Drains at Thanisandra Dasarahalli Sarnipalya and Bharathinagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113..
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	08-07-22
Type of Mix	:	BC(Bituminous Concrete)
Date of test	:	08-07-22
Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage :	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

* The results obtained are satisfactory as per standard requirements.

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PHYSICAL REQUIREMENTS FOR COARSE AGGREGATE FOR BITUMINOUS CONCRETE

Lab ID : CP-RW-2023-01-14-14

Project Name : Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Date: 11-07-22

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 08-07-22

Type of Mix : BC (Bituminous Concrete)

Date of test : 08-07-22

Table 500-16 : Physical Requirements fo Coarse Aggregate for Bituminous Concrete

Property	Test	Result	Specification	Method of Test
Partical Shape	Flakiness Index	12.4	Combined Flakiness & Elongation Index for BC is Maximum 35%	IS:2386 Part I
	Elongation Index	11.8		
Strength	Aggregate Impact Value	22.1	Maximum 24%	IS:2386 Part IV
Specific gravity	Specific gravity	2.68	Maximum 2.7	IS:2386 Part III
Water Absorption	Water Absorption	0.21	Maximum 2%	IS:2386 Part III

*The results obtained are satisfactory as per standard requirements.

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Certificate No : TC-5548

TESTS RESULTS ON STABILITY OF MIX

Lab ID : CP-RW-2023-01-14-14

Project Name : Package-3, Includes 5 Works Date: 11-07-22
Improvements to Roads and Drains at Thanisandra Dasarahalli Saralpalya and Bharathnagara and Surrounding Area in Ward No 66 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/YNK.D/EPMT-06/W.O/35/2022-23

Date of Receipt : 08-07-22

Type of Mix : BC (Bituminous Concrete)

Date of test : 08-07-22

The results of the tests conducted on the Bituminous Concrete mix sample are as follow

Sl.No	Particulars of observations	TEST 1	TEST 2	Secified limits as per MORTH specification table 500-11
1	Marshal Stability at 60°C, KN	11.14	11.13	10KN(min)
2	Marshal flow at 60°C, mm	3.52	3.51	2-4
3	Percent air Voids	4.82	4.83	3-5
4	Percent Voids in mineral Aggregate(VMA %)	14.28	14.26	13-15
5	Percent Voids filled with Bitumen(VFB %)	71.87	71.63	65-75
6	Density, g/cc	2.25	2.26	–

* The results obtained are satisfactory as per standard requirements.

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ಬಿ.ಬಿ.ಎಂ.ಪಿ., ಬೆಂಗಳೂರು-26.

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TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 13-07-22

Lab ID	:	CP-RW-2023-01-14-14
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	12-07-22
Type of Mix	:	BC (Bituminous Concrete) - Amruthnagar C Sector 2nd Cross Road
Date of test	:	12-07-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	471
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	5.80
4	Average percentage	%	5.7	

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ಬ್ಯಾಟರಾಯನಪುರ ಉಪ ವಿಭಾಗ
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Certificate No.: TC-5548

Lab ID : CP-RW-2023-01-14-14

Date: 13-07-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	6	6	1.3	98.7	90-100
9.5	73	79	16.7	83.3	70-88
4.75	115	194	41.1	58.9	53-71
2.36	70	264	55.9	44.1	42-58
1.18	32	296	62.7	37.3	34-48
0.6	20	316	66.9	33.1	26-38
0.3	54	370	78.4	21.6	18-28
0.15	32	402	85.2	14.8	12-20
0.075	42	444	94.1	5.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 471

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	8	8	1.7	98.3	90-100
9.5	73	81	17.2	82.8	70-88
4.75	110	191	40.6	59.4	53-71
2.36	72	263	55.8	44.2	42-58
1.18	29	292	62.0	38.0	34-48
0.6	13	305	64.8	35.2	26-38
0.3	49	354	75.2	24.8	18-28
0.15	45	399	84.7	15.3	12-20
0.075	40	439	93.2	6.8	4-10

* The results obtained are satisfactory as per standard requirements.

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Quality Manager

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Date: 14-07-22

Lab ID	:	CP-RW-2023-01-14-14
Project Name	:	Package-3, Includes 5 Works Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	13-07-22
Type of Mix	:	BC (Bituminous Concrete) - Amruthnagar C Sector 3rd Cross Road
Date of test	:	13-07-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472.5	472
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.50	5.60
4	Average percentage	%	5.6	

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ಬೆಂಗಳೂರು. ಪಶ್ಚಿಮ-28

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Certificate No : TC-5548

Lab ID : CP-RW-2023-01-14-14

Date: 14-07-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472.5

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	10	10	2.1	97.9	90-100
9.5	78	88	18.6	81.4	70-88
4.75	125	213	45.1	54.9	53-71
2.36	55	268	56.7	43.3	42-58
1.18	29	297	62.9	37.1	34-48
0.6	15	312	66.0	34.0	26-38
0.3	63	375	79.4	20.6	18-28
0.15	27	402	85.1	14.9	12-20
0.075	32	434	91.9	8.1	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	7	7	1.5	98.5	90-100
9.5	68	75	15.9	84.1	70-88
4.75	105	180	38.1	61.9	53-71
2.36	75	255	54.0	46.0	42-58
1.18	35	290	61.4	38.6	34-48
0.6	35	325	68.9	31.1	26-38
0.3	57	382	80.9	19.1	18-28
0.15	24	406	86.0	14.0	12-20
0.075	32	438	92.8	7.2	4-10

* The results obtained are satisfactory as per standard requirements.

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Authorized Signatory
Quality Manager

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Certificate No.: TC-5548

TEST RESULTS OF BITUMEN BINDAR CONTENT AND GRADATION FOR BC
IS 2386 (Part 1) 1963 (RA 2011)

Lab ID : CP-RW-2023-01-14-14

Project Name : Package-3, Includes 5 Works Date: 15-07-22
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 14-07-22

Type of Mix : BC (Bituminous Concrete) - Amruthnagar C Sector 8th Cross Road (W0629)

Date of test : 14-07-22

Sl.no	Description	Index	Trail 1	Trail 2
1	Weight of the Sample	A	500	500
2	Weight of the sample After extraction	B	472	470
3	Bitumen percentage	$\frac{A-B}{A} \times 100$	5.60	6.00
4	Average percentage	%	5.8	

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Lab ID : CP-RW-2023-01-14-14

Date: 15-07-22

AFTER EXTRACTION - Trail-1

Total Weight of the Sample(gm) : 472

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	12	12	2.5	97.5	90-100
9.5	69	81	17.2	82.8	70-88
4.75	132	213	45.1	54.9	53-71
2.36	48	261	55.3	44.7	42-58
1.18	32	293	62.1	37.9	34-48
0.6	14	307	65.0	35.0	26-38
0.3	72	379	80.3	19.7	18-28
0.15	24	403	85.4	14.6	12-20
0.075	27	430	91.1	8.9	4-10

AFTER EXTRACTION - Trail-2

Total Weight of the Sample(gm) : 470

IS Sieve Size (mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Secified limits as per MORTH specification table 500-23(grading-2)
19	0	0	0.0	100.0	100
13.2	14	14	3.0	97.0	90-100
9.5	75	89	18.9	81.1	70-88
4.75	118	207	44.0	56.0	53-71
2.36	58	265	56.4	43.6	42-58
1.18	30	295	62.8	37.2	34-48
0.6	25	320	68.1	31.9	26-38
0.3	50	370	78.7	21.3	18-28
0.15	22	392	83.4	16.6	12-20
0.075	35	427	90.9	9.1	4-10

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

TEST REPORT ON BITUMEN

Format No: CP/TF/01

Lab ID : CP-RW-2023-01-14-14

Project Name : Package-3, Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111.
Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Date: 04-07-22

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer's Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 01-07-22

Sample Type : Bitumen

Reference to BIS codes : IS: 1201-2021, IS: 1202-1220(1978) (Reaffirmed-2019)

Date of test : 01-07-22

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	58	Min 45 mm
2	Softening Point, °C	53	Min. 47°C
3	Ductility, cm	99	Min. 40cm
4	Flash point, °C	290	Min. 220°C
	Fire point, °C	302	

*The results obtained are satisfactory as per standard requirements.

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DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID : CP-RW-2023-01-14-14 Date: 13-07-22

Project Name : Package-3. Includes 5 Works
Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.

Agency : M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013

Customer Reference : BBMP/EE/BTP/WO/02/2021-22

Date of Receipt : 12-07-22

Type of Mix : Tack coat

Date of test : 12-07-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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Certificate No.: TC-5548

DETERMINATION OF RATE OF SPREAD TACK COAT

Lab ID	:	**CP-RW-2023-01-14-14**
Project Name	:	Package-3, Includes 5 Works **Date: 13-07-22** Improvements to Roads and Drains at Thanisandra Dasarahalli Saraipalya and Bharathnagara and Surrounding Area in Ward No 06 Byatarayanapura Sub Division Package-3 (Old Annuxure-2) Go Sl No 109,110,111. Comprehensive Development and Improvements to Roads and Drains Rachenahalli and Surrounding Area in Ward No 6 and 7 Byatarayanapura Sub Division Package-2 (Old Annuxure) Go Sl No 112 and 113.
Agency	:	M/s. Ram and Company, Prop. Sri C R Girish, No:12, Patel Pillegowda Layout, Ramachandrapura, Bangalore-560013
Customer Reference	:	BBMP/EE/BTP/WO/02/2021-22
Date of Receipt	:	12-07-22
Type of Mix	:	Tack coat
Date of test	:	12-07-22

Sl.No	Determination	Unit	TEST 1	TEST 2
1	Size of Plate (mxm)	Mt	0.30 x .30	0.30 x .30
2	Area of Plate (a)	Sq.mtr	0.09	0.09
3	Initial Wt of empty Plate (b)	Kg	0.78	0.748
4	Final weight of plate after application of tack Coat (c)	Kg	0.803	0.771
5	Weight of tack Coat (d=c-b)	Kg	0.023	0.023
6	Rate of spread of tack coat	Kg/sq.m	0.256	0.256
7	Average	Kg/sq.m	0.256	
8	Specified Limit	Kg/sq.m	0.250 Kg/sq.m	

* The results obtained are satisfactory as per standard requirements.

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